

[Ejector Nozzle]

Abstract

A multi-lobed ejector nozzle of economical construction and simple form is described. The lobes are formed by a plurality of short tubes that intersect with a central jet. Coanda jets upstream of the ejector formed by a collar and multiple apertures further assist the induction of an external flow to the primary ejector. Shaping of the tube nozzles aid in forming the ejector lobes. The nozzle geometry and the Coanda ring contribute to a reduction in the noise of the ejector assembly.